IN THE ABSTRACT:

The Abstract has been amended as follows:

ABSTRACT OF THE DISCLOSURE

In a method to produce a volume data set, the imaged surface of a subject imaged in a first volume data set is segmented. The first volume data set then is transformed into a second volume data set, such that the segmented imaged surface and its environment [[is]] are transformed into a plane. From the second volume data set, a third volume data set is produced by filtering the second volume data set such that structures not of no interest of the first subject, imaged in the second volume data set, are filtered out based on features associated with structures not of no interest and based on the expected removals distances from the surface of the structures not of no interest, and structures of interest of the first subject, imaged in the second volume data set, remain based on features associated with structures of interest, and based on the expected removals distances of the structures not of no interest from the surface.